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depicted in text and illustrations. The chapter gives a comprehensive view of the importance of tobacco in all countries where it is produced, manufactured and consumed. The text is intended for all intelligent readers and its interest is emphasized by the extraordinary number of photographic reproductions and of pictures in colors, one or more of which appear on every page. Mr. Warburg, one of the editors of the work, is well known as an authority on tropical agriculture and the editor of *Der Tropenpflanzer*, Berlin.

Text-Book of Petrology. By F. H. Hatch. Fifth Edition. xvi and 404 pp. and Illustrations. Swan, Sonnenschein & Co., London, 1909. \$1.90.

The fifth edition of this text-book on the petrology of the igneous rocks has been so much enlarged that it contains, approximately, three times as much material as the first edition which appeared eighteen years ago. With its more numerous illustrations, more complete lists of chemical analyses, and fuller references to the literature of petrology, the present edition deserves to be classed among the best of the smaller text-books on the subject.

The author divides the book into four parts, the first of which deals with "the physical characters of the igneous rocks." The modes of occurrence of igneous rocks are described briefly under such paragraph headings as Stocks, Dykes, Laccoliths, Necks, etc.; columnar and other types of joint structure, flow structure, and other features of "External structure" are treated in a short chapter; while texture or micro-structure, and composition, both chemical and mineralogical, receive a more extended treatment in the two following chapters.

Part II deals with "the constituent minerals of the igneous rocks," discussing several bases of classification and presenting in the first chapter in tabular form, a classification of the more important minerals. In the second chapter certain optical properties of minerals as seen in thin sections are discussed; chapter three is devoted to the detailed description of the rock-forming minerals.

Part III considers "the classification of igneous rocks" under the three chapter headings: Plutonic Rocks, Hypabyssal Rocks, and Volcanic Rocks. Further classification is based on the silica content, with the alkali and calc-alkali contents as a basis for still further subdivision. In Part IV the "distribution of the igneous rocks as illustrated by the British Isles" is treated in three chapters, while a table for the determination of rock-making minerals in thin sections, by R. H. Rastall and J. Romanes, is given in an appendix. D. W. JOHNSON.

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